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DEC 16 2002 MATERIAL SAFETY DATA SHEET

Kennecett Brak Conner Corperation

BARNEYS CASE MINING PRODUCT INFORMATION

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SYNONYM: Barneys Canyon Flux	PRODUCT CODE: Not Applicable	HIERARCHY: Not Applicable
CHEMICAL FAMILY: Metal Sulfide and Silicate Minerals	FORMULA: Not Applicable	MOLECULAR WEIGHT: Not Applicable
MANUFACTURER: Barneys Canyon Mining Company	REVISION DATE:	SHEET DATE PREPARED:
P.O. Box 311 Bingham Canyon, UT 84066 (801) 252-3000	N.A. (New MSDS)	December 1, 2002
CAD ANA CALMIO	AL EMPRESSON CONTROL CULTURES CO	

FOR ANY CHEMICAL EMERGENCY CONTACT CHEMTREC (800) 424-9308

INGREDIENTS / HEALTH HAZARD INFORMATION

C.A.S. #	%	EXPOSURE LIMITS
14808-60-7	Approx 78%	0.1 mg/M³ OSHA/MSHA PEL for respirable quartz.
N.A.	Approx. 10%	5.0 mg/M³ OSHA PEL for respirable dust.
N.A.	Approx. 6%	5.0 mg/M³ OSHA PEL for respirable dust.
N.A.	Approx. 5%	5.0 mg/M³ OSHA PEL for respirable dust.
7440-38-2	Approx. 0.9%	0.010 mg/M³ OSHA PEL
	14808-60-7 N.A. N.A.	14808-60-7 Approx 78% N.A. Approx. 10% N.A. Approx. 6% N.A. Approx. 5%

Remaining components not determined hazardous and/or hazardous components present at less than 1.0% (0.1% for carcinogens). Note: IARC has determined that respirable crystalline quartz is a Group I human carcinogen. OSHA classes inorganic arsenic as a human carcinogen.

PRODUCT HEALTH HAZARD INFORMATION

INGESTION:

Not a normal route of exposure. If powdered material is ingested, symptoms may include metallic taste, thirst, and abdominal pain.

SKIN: EYE:

Abrasive action may cause reddening, itching and inflammation. May cause allergic reactions in some individuals. Contact with powdered material may cause irritation. Abrasive action may cause damage to the outer surface of the eye.

INHALATION:

Exposure to dust may cause respiratory tract irritation. Prolonged exposure to elevated levels of airborne dust may cause silicosis.

SPECIAL TOXIC EFFECTS: None known.

FIRST AID

INGESTION:

Not a normal route of exposure. If large amounts have been swallowed, give 1-3 glasses of water or milk and induce vomiting. Do not

make an unconscious person vomit. Keep affected person warm and at rest. Get immediate medical attention.

SKIN CONTACT: EYE CONTACT:

Wash area of contact thoroughly with soap and water. Get immediate medical attention if irritation persists. Flush immediately with large amounts of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get

medical attention if irritation persists.

INHALATION:

Remove affected person from source of dust exposure. If breathing is difficult, give oxygen. Get immediate medical attention.

PERSONAL PROTECTION INFORMATION

EYE PROTECTION: When generating particles or dusts, wear safety glasses or chemical goggles to prevent eye contact. Do not wear contact lenses. Have eye baths readily available where eye contact can occur.

SKIN PROTECTION: Wear adequate gloves and protective clothing to prevent skin contact.

RESPIRATORY PROTECTION: Use NIOSH approved respirator when airborne exposure limits are exceeded. NIOSH approved breathing equipment may be required for non-routine and emergency use. Ventilation may be used to control or reduce airborne concentrations.

REACTIVITY DATA

STABILITY/INCOMPATIBILITY: Stable under normal conditions of use.

HAZARDOUS REACTIONS/DECOMPOSITIONS: - Not Established

PHYSICAL PROPERTIES

BOILING POINT:	SPECIFIC GRAVITY:	% VOLATILE:	EVAPORATION RATE (BUTYL ACETATE = 1): Not Applicable
Not Determined	Not Determined	Not Applicable	
VAPOR PRESSURE:	MELTING POINT:	VISCOSITY, SUS:	VAPOR DENSITY (AIR = 1): Not Applicable
Not Applicable	Not Determined	Not Applicable	
% SOLUBILITY IN WATER:	POUR POINT:	pH:	APPEARANCE / ODOR: Dark colored material with slight coal odor
Insoluble	Not Applicable	Not Applicable	

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FIRE AND EXPLOSION DATA

FLAMMABILITY LIMITS IN AIR (% BY VOL):	AUTOIGNITION TEMPERATURE:	FLASH POINT:
Lower: No Data Upper: No Data	Not Applicable	Not Applicable
UNUSUAL FIRE AND EXPLOSION HAZARDS: This material does not give a flash point by conventional test methods.	BASIC FIRE FIGHTING PROCEDURES: Use extinguishing agent for type of surrounding fire. Fire fighters should wear NIOSH approved SCBA with full-face mask and full protective equipment.	

ENVIRONMENTAL INFORMATION

SPILL OR RELEASE TO THE ENVIRONMENT: No special procedures are required for cleanup of spills or leaks of this material. Avoid methods that result in airborne dispersal or water pollution. Caution should be exercised regarding personnel safety. Notify the National Response Center and/or state and local agencies if required.

NOTIFICATION: The reportable quantity (RQ) for the arsenic compounds (arsenic sulfides realgar and orpiment) present in this product is 1 lb. A spill or release of 68 lb or more of this product may contain an RQ of arsenic sulfides, and thus would require notification to the National Response Center and/or state and local agencies.

WASTE DISPOSAL: This substance, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations. It could be designated as hazardous according to state regulations. This substance could also become a hazardous waste if it is mixed with or comes in contact with a hazardous waste. If such contact or mixing may have occurred, check 40 CFR 261, 262, 263 and 264 to determine what if any, hazardous waste regulations apply. The transportation, storage, treatment, and disposal of hazardous waste materials must be conducted in compliance with all applicable federal, state and local regulations.

ADDITIONAL ENVIRONMENTAL REGULATORY INFORMATION: Specific local, regional or state regulations must be complied with.

EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT (EPCRA) SECTION 313 SUPPLIER NOTIFICATION:

This product, "Barneys Canyon Flux", contains the following chemicals subject to the reporting requirements of Section 313 of EPCRA:

<u>CAS #</u> 7440-38-2

<u>Chemical Name</u> Arsenic & Compounds Percent By Weight 0.9 (as arsenic)

SPECIAL PRECAUTIONS/SUPPLEMENTARY INFORMATION

HANDLING/STORAGE: Avoid inhalation of dust from the material during processing.

MARITIME TRANSPORT: The bulk maritime shipment of Barneys Canyon Flux should comply with all Coast Guard/DOT rules under 46 CFR 148.01 including the International Maritime Organization (IMO) Code of Safe Practice for Solid Bulk Cargoes. The cargo moisture content must be less than the Transportable Moisture Limitation.

TRANSPORTATION REQUIREMENTS

D.O.T. HAZARD CLASS (49 CFR 172.101):	D.O.T. PROPER SHIPPING NAME (49 CFR 172.101): Environmentally hazardous substance, solid, n.o.s.	D.O.T. PLACARDS REQUIRED: Miscellaneous
D.O.T. LABELS REQUIRED (49 CFR 172.101): Miscellaneous	BILL OF LADING DESCRIPTION: Environmentally hazardous substance, solid, n.o.s., 9, UN3077, PG III (contains arsenic) RQ (arsenic sulfides)	UN / NA CODE: UN3077

The information presented herein is based on data considered to be accurate as of the date of preparation of this Material Safety Data Sheet. No warranty or representation, express or implied, is made as to the accuracy or completeness of the foregoing data and safety information, nor is any authorization given or implied to practice a patented invention without a license. In addition, no responsibility can be assumed by manufacturer for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices, or from any hazards inherent in the nature of the product.